



# ATKINS

Keynetix  
Geotechnical Data  
Management Awards  
2014  
Finalist

Atkins staff needed an efficient way to report progress and results as part of the data management process.

Here's how Keynetix helped them do just that.



Geotechnical Data  
Software Transformed

[keynetix.com/stories](https://keynetix.com/stories)

**Atkins Epsom are using these Keynetix products:**

- **HoleBASE SI Professional**
- **HoleBASE SI Extension for AutoCAD Civil 3D**
- **HoleBASE SI Extension for Microsoft Excel**
- **HoleBASE SI Data Entry**
- **KeyAGS**
- **Pocket SI**

Whilst the templates offered a significant benefit to this project, they have been produced generically, so are now available to all Atkins employees, improving the consistency of deliverables and the time it takes to produce them on all future projects.

**Dale Norris, Assistant Geotechnical Engineer**  
**ATKINS**

The task of manipulating, analysing and presenting the data in the correct format for each location was potentially an extremely time consuming process so Atkins staff needed an efficient way to report progress and results as part of the data management process. **HoleBASE SI**.

## BUSINESS SITUATION

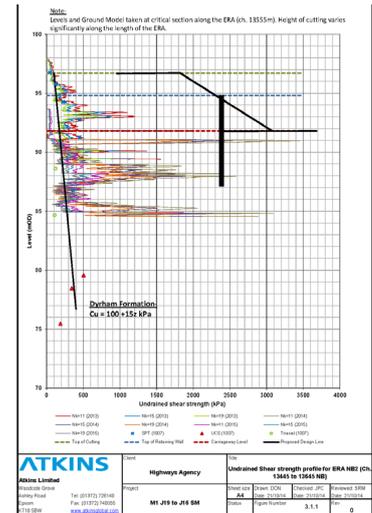
Atkins are one of the world's leading design, engineering and project management consultancies. The Epsom office were working on the M1 J19 to J16 project covering a distance of approximately 23.5km. The aim of the project was to provide a four-lane carriageway in each direction, by converting the existing hard shoulder to a main traffic lane, with the construction of additional refuge areas, sign gantries and signal cantilevers, whilst not encroaching beyond the existing Highways Agency boundary.

## THE TECHNICAL REALITY

The number of structures and the progressive nature of the project made tracking the laboratory testing and site work for each site complex. Given the number of sites, geological formations and the quantity of GI data, a series of project data management procedures and analysis was required.

## THE SOLUTION

The data for the project was stored in **HoleBASE SI** and extensive use was made of the **HoleBASE SI Extension for Microsoft Excel** to improve efficiency in analysing the GI data and to produce data plots and progress reports. The receipt of laboratory testing was delayed for the project, which resulted in the interpretation having to begin before all data was received, creating the potential for significant rework to re-analyse and present the data.



In order to overcome this, the **HoleBASE SI Extension for Microsoft Excel** was used to produce report templates. The two templates that were particularly beneficial allowed complex queries to be run quickly and accurately, reducing the time associated with updating the data following receipt of new lab test data from several days to a matter of minutes.

## THE BENEFITS

The three main benefits were 'Efficiency and Time Savings,' 'Quality of Deliverables' and 'Reduced Impact of Rework'. The reports were set up to automatically sort the data by geology and filters were applied to allow site specific data to be selected. This effectively took days of work down to a matter of minutes. The reports produced allowed updates with just a click of a button, minimising the rework required to update plots.